PYTHON – ASSIGNMENT 1

**Ques. 1. What is JPython and CPython?**

* **Jython** is an implementation of the Python programming language designed to run on the Java platform. The implementation was formerly known as JPython until 1999.
* **CPython** is the reference implementation of the Python programming language. Written in C and Python, CPython is the default and most widely used implementation of the language.

**Ques. 2. Basic difference between Python2 & Python3.**

* Python 2 uses print as a statement and used as print "something" to print some string on the console. On the other hand, Python 3 uses print as a function and used as print("something") to print something on the console.
* Python 3 doesn't contain the xrange() function of Python 2. The xrange() is the variant of range() function which returns a xrange object that works similar to Java iterator. The range() returns a list for example the function range(0,3) contains 0, 1, 2.
* Python 2 uses the function raw\_input() to accept the user's input. It returns the string representing the value, which is typed by the user. To convert it into the integer, we need to use the int() function in Python. On the other hand, Python 3 uses input() function which automatically interprets the type of input entered by the user.
* In Python 2, the implicit string type is ASCII, whereas, in Python 3, the implicit string type is Unicode.

**Ques. 3. Difference between ASCII & Unicode**

* ASCII uses an 8-bit encoding while Unicode uses a variable bit encoding.
* Unicode is standardized while ASCII isn’t.
* Unicode represents most written languages in the world while ASCII does not.
* ASCII has its equivalent within Unicode.